



SEQUENCE LISTING

<110> MOTODA, Yoko et al

<120> METHOD OF PRODUCING TEMPLATE DNA AND METHOD OF PRODUCING PROTEIN IN CELL-FREE PROTEIN SYNTHESIS SYSTEM USING THE SAME

<130> 1686-0108P

<140> 2003-12-31

<141> US 10/748,055

<150> PCT/JP02/06261

<151> 2002-06-24

<150> JP P2001-201356

<151> 2001-07-02

<160> 25

<170> PatentIn version 3.1

<210> 1

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> native His tag

<400> 1

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1 5 10 15

Ala His Asn Lys
20

<210> 2

<211> 605

<212> DNA

<213> Artificial Sequence

<220>

<223> double stranded linear DNA coding for Ras protein

<400> 2

ggcgtataca tatgaccgaa tacaaactgg ttgttagttgg cgctggtggt gtaggcaaaa 60

gcgcgctgac cattcagttg atccagaacc acttcgtaga tgagtacgac ccgactattg 120

aagactctta ccgtaagcag gttgttatcg acggtgagac ctgtttgctg gacatccttg 180

ataccgcagg ccaagaagaa tactctgcta tgcgtgatca gtatatgcgt accggcgaag 240

gcttcctgtg cgtttcgct atcaacaaca ccaaatctt tgaagacatc catcaatacc	300
gtgaacagat caaacgtgtt aaagactctg atgacgttcc gatggttctg gttggtaaca	360
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acggaattcc gtacatcgaa acctctgcta aaactcgta aggcgttcaa gacgcttct	480
acaccttggt tcgtgaaatc cgtcagcaca agctcgtaa gctttgatag aattccgtga	540
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ccgct	605

<210> 3
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' primer-1 universal

<400> 3
ccgaaggagc cgccaccat

19

<210> 4
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' primer-2 for Ras

<400> 4
gaaggagccg ccaccatgac cgaataaaaa ctggtttag

40

<210> 5
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' primer universal

<400> 5
gcggataaca atttcacaca ggaaac

26

<210> 6
<211> 844
<212> DNA
<213> Artificial Sequence

<220>

<223> 5' DNA fragment comprising GST tag sequence

<400> 6
ccgctgtcct cgttccagc ccatgattac gaattcagat ctcgatcccc cgaaattaat 60
acgactcact atagggagac cacaacggtt tccctctaga aataatttg tttaacttta 120
agaaggagat atacatatgt cccctatact aggttattgg aaaattaagg gccttgcga 180
accactcgaa cttctttgg aatatcttga agaaaaatata gaagagcatt tgtatgagcg 240
cgatgaaggt gataaatggc gaaacaaaaaa gtttgaattt ggtttggagt ttcccaatct 300
tccttattat attgatggtg atgttaaatt aacacagtct atggccatca tacgttat 360
agctgacaag cacaacatgt tggttggtt tccaaaagag cgtgcagaga tttcaatgct 420
tgaaggagcg gttttggata ttagatacgg tgtttcgaga attgcatata gttaagactt 480
tgaaactctc aaagttgatt ttcttagcaa gctacctgaa atgctaaaaa tgttcgaaga 540
tcgtttatgt cataaaacat atttaaatgg tgatcatgta acccatcctg acttcatgtt 600
gtatgacgct cttgatgtt ttttatacat ggacccaatg tgcctggatg cgttccaaa 660
attagttgt tttaaaaaac gtattgaagc tatcccacaa attgataagt acttgaaatc 720
cagcaagtat atagcatggc ct当地caggg ctggcaagcc acgtttggtg gtggcgacca 780
tcctccaaaa tcggataagct ctggcgccctc cctggtgcca cgcggatccg aaggagccgc 840
cacc 844

<210> 7

<211> 217

<212> DNA

<213> Artificial Sequence

<220>

<223> 5' DNA fragment comprising His tag sequence

<400> 7
ccgctgtcct cgttccagc ccatgattac gaattcagat ctcgatcccc cgaaattaat 60
acgactcact atagggagac cacaacggtt tccctctaga aataatttg tttaacttta 120
agaaggagat atacatatga aaggcagcag ccatcatcat catcatcaca gcagcggcgc 180
ctccctggtg ccacgcggat ccgaaggagc cgccacc 217

<210> 8

<211> 244

<212> DNA

<213> Artificial Sequence

<220>
<223> 5' DNA fragment comprising native His tag sequence

<400> 8
ccgctgtcct cgttcccagc ccatgattac gaattcagat ctcgatcccg cgaaattaat 60
acgactcaact atagggagac cacaacggtt tccctctaga aataattttt tttaacttta 120
agaaggagat atacatatga aagatcatct catccacaat gtccacaaag aggagcacgc 180
tcatgccac aacaagagct ctggcgccctc cctggtgcca cgccgatccg aaggagccgc 240
cacc 244

<210> 9
<211> 652
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' DNA fragment comprising CBD

<400> 9
ccgctgtcct cgttcccagc ccatgattac gaattcagat ctcgatcccg cgaaattaat 60
acgactcaact atagggagac cacaacggtt tccctctaga aataattttt tttaacttta 120
agaaggagat atacatatgt cagttgaatt ttacaactct aacaaatcag cacaacaaa 180
ctcaattaca ccaataatca aaattactaa cacatctgac agtgatttaa atttaatga 240
cgtaaaagtt agatattattt acacaagtga tggtacacaa ggacaaactt tctggtgtga 300
ccatgctggc gcattatttag gaaatagcta tgttgataac actagcaaag tgacagcaa 360
cttcgttaaa gaaacagcaa gcccaacatc aacctatgat acatatgtt aatttggatt 420
tgcaagcggc gcagctactc ttaaaaaagg acaattata actattcaag gaagaataac 480
aaaatcagac tggtcaaact acactcaaac aaatgactat tcatttgatg caagtagttc 540
aacaccagtt gtaaatccaa aagttacagg atatataggg ggagctaaag ttcttggtag 600
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<210> 10
<211> 511
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' DNA fragment comprising Thioredoxin sequence

<400> 10
ccgctgtcct cgttcccagc ccatgattac gaattcagat ctcgatcccg cgaaattaat 60

acgactca	ct atagggagac cacaacgg	tt tccctctaga aataat	ttt ttaacttta	120
agaaggagat	at acatatga gcgataaaat	tattcacctg actgacgaca	gttttgcacac	180
ggatgtactc	aa agcgacg gggcgatc	cgtcgattc tggcagagt ggtgcgg	tcc	240
gtgc	aaaatg atcgccccga ttctggatga aatcgctgac	aatatcagg gcaaactgac	300	
cg	ttgcaaaa ctgaacatcg atcaaaaccc tggcactg	cgc ccgtgg	360	
tatccc	act ctgctgtgt tc aaaaacgg tgaagtggcg	gcaaccaaag tgggtgcact	420	
gtctaa	agg t cagttgaaag agttcctcga cgctaacc	tgc gccctccct	480	
gg	tgccacgc ggatccgaag gagccgccac c		511	

<210> 11
<211> 183
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' DNA fragment comprising T7 terminator

<400> 11	gttccctgtg tgaaattgtt atccgctgct gagttggctg ctgccaccgc	tgagcaataa	60
ctagcataac cccttgggc ctctaaacgg gtcttgaggg gtttttgct	gaaaggagga	120	
actatatccg gataaccctcg agctgcaggc atgcaagctt gggctggga	acgaggacag	180	
cg		183	

<210> 12
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> universal primer for 2nd PCR

<400> 12	gccgctgtcc tcgttcccag cc		22
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<210> 13
<211> 760
<212> DNA
<213> Artificial Sequence

<220>
<223> double stranded linear DNA coding for CAT protein

<400> 13

ggcgtataca tatggagaaa aaaatcaactg gatataaccac cgttgatata tcccaatggc	60
atcgtaaaga acatttttag gcatttcagt cagttgctca atgtacctat aaccagaccg	120
ttcagctgga tattacggcc tttttaaaga ccgtaaagaa aaataagcac aagtttatac	180
cggccttat tcacattctt gccgcctga tgaatgctca tccggaattc cgtatggcaa	240
tgaaagacgg tgagctggtg atatggata gtgttacccc ttgttacacc gtttccatg	300
agcaaactga aacgtttca tcgctctgga gtgaatacca cgacgatttc cggcagttc	360
tacacatata ttgcgaagat gtggcgtgtt acggtaaaaa cctggcctat ttccctaaag	420
ggtttattga gaatatgttt ttgcgtctcag ccaatccctg ggtgagttc accagtttg	480
attnaacgt ggccaatatg gacaacttct tcgccccgt tttcaccatg ggcaaatatt	540
atacgcaagg cgacaaggtg ctgatgccgc tggcgattca gttcatcat gccgtctgtg	600
atggcttcca tgcggcaga atgcttaatg aattacaaca gtactgcgt gagtggcagg	660
gcggggcgta attttttaa ggcagttatt ggtgcctta aacgtcgacc ggctgctaacc	720
aaaggccgaa agggtttcct gtgtgaaatt gttatccgct	760

<210> 14
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' primer-2 for CAT

<400> 14
gaaggagccg ccaccatgga gaaaaaaaaatc actggatata c

41

<210> 15
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' primer-2 for 1A2

<400> 15
gaaggagccg ccaccatgct caaagtacg gtgcc

36

<210> 16
<211> 35
<212> DNA
<213> Artificial Sequence

<220>

<223> 5' primer-2 for 1B2

<400> 16
gaaggagccg ccaccatgga ggagcagcgc tggtc 35

<210> 17
<211> 35
<212> DNA
<213> Artificial Sequence

<220>

<223> 5' primer-2 for 1C8

<400> 17
gaaggagccg ccaccatggc cggaaaccaag cagac 35

<210> 18
<211> 38
<212> DNA
<213> Artificial Sequence

<220>

<223> 5' primer-2 for 1D2

<400> 18
gaaggagccg ccaccatggg tggcacaaa atcattcc 38

<210> 19
<211> 37
<212> DNA
<213> Artificial Sequence

<220>

<223> 5' primer-2 for 1D9

<400> 19
gaaggagccg ccaccatgtt ggagacctac agcaacc 37

<210> 20
<211> 34
<212> DNA
<213> Artificial Sequence

<220>

<223> 5' primer-2 for 1D10

<400> 20
gaaggagccg ccaccatggc ggtgcaggtg gtgc 34

<210> 21
<211> 36
<212> DNA

<213> Artificial Sequence

<220>

<223> 5' primer-2 for 1E4

<400> 21
gaaggagccg ccaccatgga tgatcggag gatctg 36

<210> 22

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> 5' primer-2 for 1G4

<400> 22
gaaggagccg ccaccatgtc gagttattct agtgac 36

<210> 23

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> 5' primer-2 for 1H1

<400> 23
gaaggagccg ccaccatggt gaaggtcggt gtgaac 36

<210> 24

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> 5' primer-2 for 1H5

<400> 24
gaaggagccg ccaccatggc caacagttag cg 32

<210> 25

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> His tag

<400> 25

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1 5 10